In the Claims:

1. (Currently Amended) A method comprising:

pivotally coupling a housing to a post;

transmitting a defined beam of eyesafe laser energy by a window disposed on an upper end of the post, said beam having an azimuth angle of 360°;

receiving reflected energy from said beam onto a detector <u>stored in the housing</u>, the <u>detector</u> having a two-dimensional array of detector elements and, in response, forming a two-dimensional image representing a contiguous 360° azimuthal view on the detector; and

analyzing information in said received energy by an electronic circuit contained in the housing so as to detect the presence of a moving projectile; and

tilting, using a weight disposed on a lower end of the post, the post relative to the housing such that angular movement of the housing allows the beam to remain in a generally horizontal orientation.

- 2. (Previously Presented) A method according to Claim 1, including configuring said beam to have an elevation angle.
 - 3. (Canceled)
- 4. (Previously Presented) A method according to Claim 2, including selecting said elevation angle to be approximately 10°.
 - 5. (Canceled)
- 6. (Original) A method according to Claim 1, wherein said analyzing includes detecting a Doppler shift in said received energy.
 - 7. (Canceled)
- 8. (Previously Presented) A method according to Claim 6, wherein said receiving includes directing onto said detector a reference beam, so that energy from said defined beam

mixes with energy from said reference beam in each said detector element to produce sum and difference frequencies.

- 9. (Original) A method according to Claim 7, wherein said analyzing includes supplying an output signal from each said detector element to a plurality of circuit portions which each perform at least one of filtering and fast Fourier transformation.
- 10. (Original) A method according to Claim 9, wherein said transmitting includes configuring said defined beam to include chirp modulation.
- 11. (Original) A method according to Claim 9, wherein said transmitting includes configuring said defined beam to be modulated with a single frequency.
- 12. (Original) A method according to Claim 9, including selecting said reference beam to be substantially equivalent to said defined beam.

- 13. (Currently Amended) An apparatus comprising:
- a gimbal that pivotally couples a housing to a post having an upper end and a lower end, the lower end being coupled to a weight;
- a transmitter portion which transmits a defined beam of eyesafe laser energy through a window disposed on the upper end of the post, said beam having an azimuth angle of 360°;
- a receiver portion which receives reflected energy from said beam onto a detector stored in the housing, the detector having a two-dimensional array of detector elements and, in response, forming a two-dimensional image representing a contiguous 360° azimuthal view on the detector; and
- a further portion which analyzes information in said received energy <u>by an</u> <u>electronic circuit contained in the housing</u> so as to detect the presence of a moving projectile.
- 14. (Previously Presented) An apparatus according to Claim 13, wherein said beam has an elevation angle.
 - 15. (Canceled)
- 16. (Previously Presented) An apparatus according to Claim 14, wherein said elevation angle is approximately 10°.
 - 17. (Canceled)
- 18. (Original) An apparatus according to Claim 13, wherein said further portion includes circuitry which can detect a Doppler shift in said received energy.
 - 19. (Canceled)
- 20. (Previously Presented) An apparatus according to Claim 18, wherein said receiver includes structure for directing onto said detector a reference beam, energy from said defined beam mixing with energy from said reference beam in each said detector element to produce sum and difference frequencies.

- 21. (Original) An apparatus according to Claim 19, wherein said circuitry includes a plurality of circuit portions which each perform at least one of filtering and fast Fourier transformation of an output signal from one of said detector elements.
- 22. (Original) An apparatus according to Claim 21, wherein said defined beam includes chirp modulation.
- 23. (Original) An apparatus according to Claim 21, wherein said defined beam is modulated with a single frequency.
- 24. (Original) An apparatus according to Claim 21, wherein said reference beam is substantially equivalent to said defined beam.

25. (Currently Amended) A method comprising:

pivotally coupling a housing to a post;

transmitting a defined beam of eyesafe laser energy by a window disposed on an upper end of the post, said beam having an azimuth angle of 360°;

receiving reflected energy from said beam onto a detector stored in the housing, the detector having a two-dimensional array of detector elements and, in response, forming a two-dimensional image representing a contiguous 360° azimuthal view on the detector; and

detecting the presence of a moving projectile by detecting a Doppler shift in said received energy by an electronic circuit contained in the housing-; and

tilting, using a weight disposed on a lower end of the post, the post relative to the housing such that angular movement of the housing allows the beam to remain in a generally horizontal orientation.

26. (Currently Amended) A method comprising:

pivotally coupling a housing to a post;

transmitting a defined beam of eyesafe laser energy by a window disposed on an upper end of the post throughout a predetermined beam azimuth angle;

receiving reflected energy from said beam onto a detector <u>in the housing</u>, the detector having a two-dimensional array of detector elements and, in response, forming a two-dimensional image representing a contiguous field of regard on the detector; and

analyzing information in said received energy by an electronic circuit contained in the housing simultaneously throughout the field of regard so as to detect the presence of a moving projectile; ; and

tilting, using a weight disposed on a lower end of the post, the post relative to the housing such that angular movement of the housing allows the beam to remain in a generally horizontal orientation;

wherein the field of regard defines a contiguous azimuthal extent that is to be analyzed for the presence of a moving projectile and wherein the beam azimuth angle is substantially equivalent to the field of regard.

- 27. (Currently Amended) An apparatus comprising:
- a gimbal that pivotally couples a housing to a post having an upper end and a lower end, the lower end being coupled to a weight;
- a transmitter portion that transmits a defined beam of eyesafe laser energy through a window disposed on the upper end of the post, said beam having a beam azimuth angle;
- a receiver portion that receives reflected energy from said beam onto a detector <u>stored</u> in the housing, the <u>detector</u> having a two-dimensional array of detector elements and, in response, forming a two-dimensional image representing a contiguous field of regard on the detector simultaneously throughout the field of regard; and
- a further portion that analyzes information in said received energy by an electronic circuit contained in the housing so as to detect the presence of a moving projectile;

wherein the field of regard defines a contiguous azimuthal extent that is to be analyzed and wherein the beam azimuth angle is substantially equivalent to the field of regard.